

Title (en)

Acoustic detection of defects in structures.

Title (de)

Akustische Feststellung von Fehlstellen in Strukturen.

Title (fr)

Détection acoustique des défauts de structures.

Publication

**EP 0106580 A2 19840425 (EN)**

Application

**EP 83305681 A 19830923**

Priority

GB 8228521 A 19821006

Abstract (en)

A method of monitoring a structure (1) comprising the steps of:(a) transmitting a burst of acoustic energy through the structure from a transducer (2) coupled to it,(b) detecting a received wave resulting from the burst at one or more transducers (3) coupled to the structure, and(c) monitoring for any change in the structure (1) after a given time (or event) by repeating the steps (a) and (b) with the coupling of the transducers being essentially unaltered, to detect a further received wave or waves; comparing the further received wave or waves with a corresponding reference received wave or waves; and determining for each comparison whether the received wave differs from the reference, any difference being indicative of the formation or growth of a defect (6) in the overall acoustic path travelled by the acoustic energy.

IPC 1-7

**G01N 29/00**

IPC 8 full level

**G01N 29/06** (2006.01); **G01N 29/11** (2006.01); **G01N 29/14** (2006.01); **G01N 29/34** (2006.01)

CPC (source: EP US)

**G01N 29/0618** (2013.01 - EP US); **G01N 29/11** (2013.01 - EP US); **G01N 29/343** (2013.01 - EP US); **G01N 2291/0289** (2013.01 - EP US); **G01N 2291/044** (2013.01 - EP US); **G01N 2291/102** (2013.01 - EP US)

Cited by

GB2614291A; GB2366382A; EP2315020A4; GB2197473A; WO2023118844A1; WO9201932A1; WO9725852A3

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

**EP 0106580 A2 19840425**; **EP 0106580 A3 19850529**; **EP 0106580 B1 19891206**; DE 3380939 D1 19900111; JP S59131161 A 19840727; NO 162358 B 19890904; NO 162358 C 19891213; NO 833567 L 19840409; US 4603584 A 19860805

DOCDB simple family (application)

**EP 83305681 A 19830923**; DE 3380939 T 19830923; JP 18767083 A 19831006; NO 833567 A 19830930; US 73976485 A 19850531